

10/508904

Rec'd PCT/PTO 23 SEP 2004

PATENT (#4)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Case No. 04-777)

In re Application of:

Russell Paul Cowburn

Serial No.: TBD

Int'l Filing Date: March 25, 2003

For: Data Storage Device

Group Art Unit: Unassigned

Examiner: Unassigned

INFORMATION DISCLOSURE STATEMENT**Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450**

Dear Sir:

Pursuant to 37 C.F.R. Section 1.97 - 1.99, the Applicant wishes to make the following references of record in the above-identified application. This Information Disclosure Statement is in compliance with the continuing duty of candor as set forth in 37 C.F.R. Section 1.56. Copies of the foreign patent cited references are enclosed. These references are also listed on the enclosed PTO Form 1449.

This statement is not a representation that the listed references have effective dates early enough to be "prior art" within the meaning of 35 U.S.C. Section 102 or Section 103.

Applicants do not believe any fee is due with this submission. If this belief be in error and the Patent Office determines that the fee prescribed in the relevant portion of 37 C.F.R. Section 1.97 is applicable, the undersigned attorney by his signature hereby authorizes any such fee to be debited from Deposit Account 13-2490.

US PATENTS

1. 3,774,179 dated November 20, 1973
2. 3,811,120 dated May 14, 1974

FOREIGN DOCUMENTS

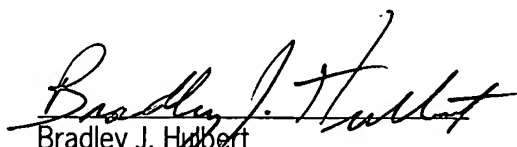
3. WO 01/31789 A2 dated May 3, 2001
4. WO 01/31789 A3 dated May 23, 2002
5. WO 02/13208 A1 dated February 14, 2002

OTHER DOCUMENTS

6. **TANIYAMA et al.** (31 January 2000) "Control of Domain Structures and Magnetotransport Properties in Patterned Ferromagnetic Wires" *Applied Physics Letters* **76(5)**:613-615.
7. **ONO et al.** (2001) "Magnetization reversal and electric transport in ferromagnetic nanowires" *Materials Science and Engineering B* **84**:126-132.

Respectfully submitted,
McDonnell Boehnen Hulbert & Berghoff LLP

Date: September 23, 2004 By:


Bradley J. Hulbert
Reg. No. 30,130

FORM PTO-1449
(Rev. 2-32)U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.

04-777

Serial No.

TBA 10/508904

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

Applicant:

Russell Paul Cowburn

Int'l. Filing Date:

March 25, 2003

Group:

Unassigned

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1.	3,774,179	11-20-1973	Wiegand et al.	340	174	07-22-1971
	2.	3,811,120	05-14-1974	Bobeck	340	174	04-05-1973

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	3.	WO 01/31789 A2	05-03-2001	PCT				
	4.	WO 01/31789 A3	05/23/2002	PCT				
	5.	WO 02/13208 A1	02/14/2002	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

	6.	TANIYAMA et al. (31 January 2000) "Control of Domain Structures and Magnetotransport Properties in Patterned Ferromagnetic Wires" <i>Applied Physics Letters</i> 76 (5):613-615.
	7.	ONO et al. (2001) "Magnetization reversal and electric transport in ferromagnetic nanowires" <i>Materials Science and Engineering B</i> 84 :126-132.
EXAMINER		DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.